Quiz No. 4 **ICT** **Date: 18th Dec, 2025**

Name: _____ **Roll No. _____** **BSE-1A**

1. Which of the following is a primary characteristic of an Embedded System compared to a General Purpose System?

A. It is easily programmable by the end-user

B. It does not require any hardware components

C. It is designed to perform a specific set of tasks

D. It typically has high power consumption

2.In the context of microprocessors, what is the function of the Address Bus?

A. It powers the internal components of the chip

B. It carries data between the memory and the CPU

C. It carries control signals like clock and interrupt signals

D. It carries the location of a memory slot or I/O port

3. Which Cloud Computing service model allows the user to deploy applications but does NOT give them control over the underlying infrastructure (servers, OS, storage)?

A. Software as a Service (SaaS)

B. Platform as a Service (PaaS)

C. Hardware as a Service (HaaS)

D. Infrastructure as a Service (IaaS)

4. Which of the '5 V's' of Big Data refers to the trustworthiness, accuracy, and quality of the data?

A. Variety

B. Veracity

C. Velocity

D. Volume

5. What distinguishes a Microcontroller from a Microprocessor?

A. Microcontrollers run at higher clock speeds (GHz range)

B. Microcontrollers are much more expensive

C. Microcontrollers are used in general-purpose laptops

D. Microcontrollers integrate memory and CPU on a single chip

6.Which type of mobile application combines features of both web and native apps and can be distributed through app stores?

A. Web Apps

B. Desktop Apps

C. Hybrid Apps

D. Native Apps

7. According to the IoT architecture, which layer is responsible for collecting live data from the surrounding environment?

A. Business Layer

B. Perception Layer

C. Network Layer

D. Application Layer

8. Data that is stored in a relational database in an ordered manner, such as tables with defined columns, is known as:

A. Unstructured Data

B. Big Data Mining

C. Semi-structured Data

D. Structured Data

9. Which of the following best describes a 'Private Cloud'?

A. Infrastructure available to the general public

B. Infrastructure shared by several organizations with shared concerns

C. Infrastructure operated solely for a single organization

D. A composition of two or more clouds (public and private)

10. In the context of Embedded Systems, a 'Hard Real-Time System' is characterized by:

A. High power consumption and user programmability

B. System collapse or total failure if a deadline is missed

C. Degraded performance if a deadline is missed

D. No specific time limits for processing